F. Willeke
-MHE-

HERA-Experiments Coordination Meeting

January 12, 2001

HERA UPDATE

- Status of Components
- Status of installation
- Revised Schedule of the Commissioning

Delivery/Manufactury of Components

Superconducting Magnets Delivery dates:

GO#2 & #3	available
GO#4	April 12 2001 (spare)
GG#1	Febr 16 (assembly in progress)
GG#2	Febr 22 (start assemby Jan 15)
GG#3	March 22 (spare)

Cryogenic Supplies for GG/GO

Coldbox ZEUS delivery on Jan 26.
Coldbox H1 delivery on Feb 7 (4 week delay due to damage during manufacturing)

Impact on the schedule: hopefully none, cold test H1 still planned for March 14

Power Supplies

The chopper supplies will be delayed by 4 weeks

Impact on the schedule: none

Vacuum System

Last critical item: GM chambers (p, γ)
Two chambers completed, tested, ok, the rest will be in time

Absorber 4 (crotch absorber): Braising failed at the DESY shops,
➔all braised parts machined-off, braising will restart next week
4 weeks delay, hopefully no impact on the schedule, but logistics difficult

QR-Coils

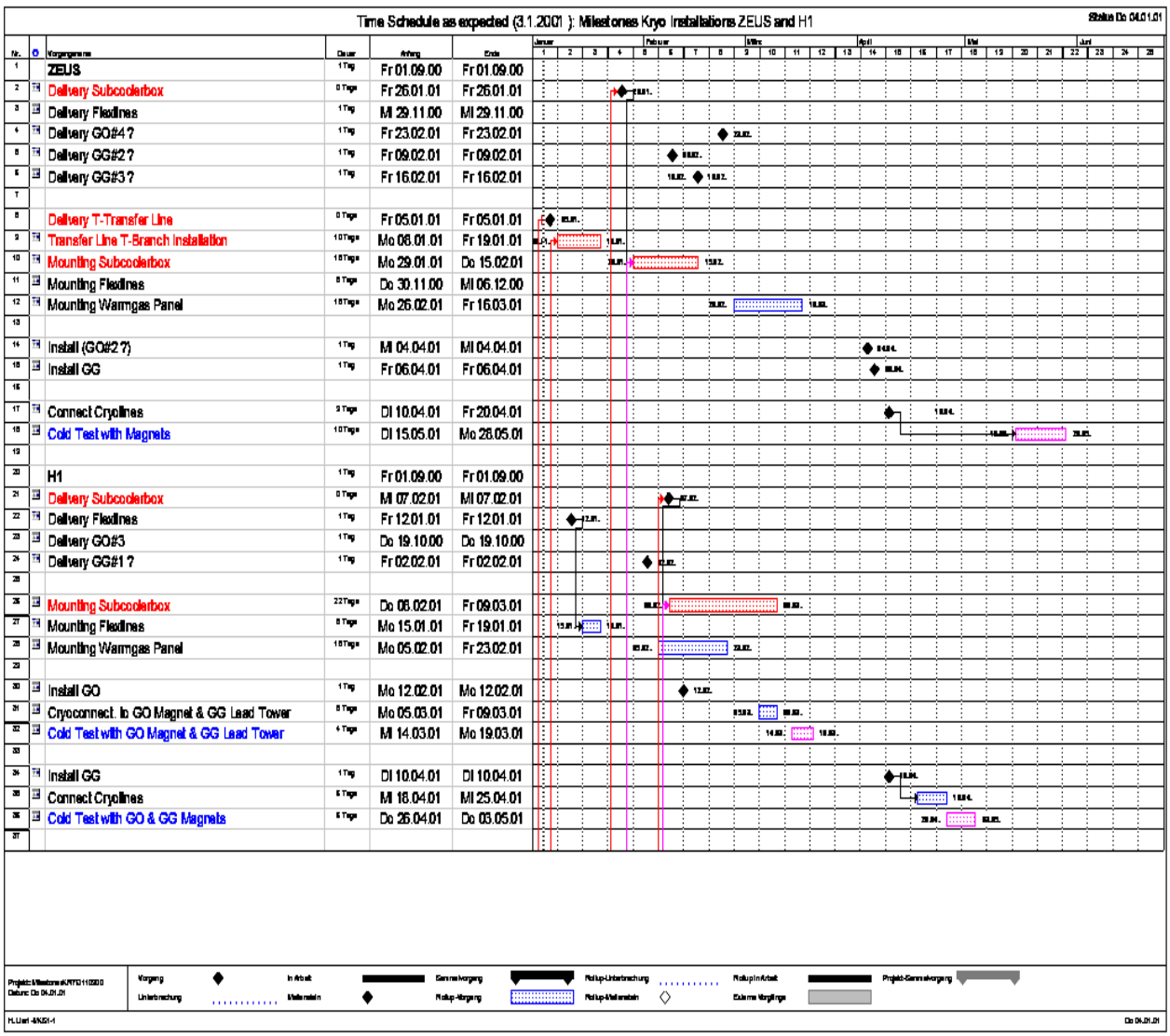
A probem was found last Tuesday on the insulation: All new coil need additional work, 14 QR magnets. Need to be de-installed again
Impact on the schedule: not yet clear

GO MILESTONES as of 9 Jan 2001

Scheduled DATE	Actual / Estimated DATE	DESCRIPTION
3/1/98	3/1/98	Start Program
8/21/98	8/31/99	Finish Q0 Magnet Design
8/21/98	12/3/98	Finish Wiring Machine Design
9/29/98	10/6/99	Finish Cold Mass Tooling Design
11/17/98	n/a	Finish Magnetic Measurement Equipment Design
11/19/98	5/21/99	Receive Superconductor
1/20/99	7/2/99	Finish Wiring Machine Installation
1/20/99	10/1/99	Receive Magnet Parts
1/28/99	7/2/99	Finish Coil Tooling Installation
2/3/99	9/22/99	Finish Cryostat Tooling Design
3/18/99	9/2/99	Finish Q0 Test Coil Assembly
4/16/99	7/16/99	Start G0 Magnet #1 Production
5/14/99	8/31/99	Start G0 Magnet #2 Production
6/14/99	10/21/99	Start G0 Magnet #3 Production
8/17/99	4/12/01	Finish G0 Magnet #4 Production
8/31/99	6/22/00	Finish G0 Magnet #2 Production
9/15/99	10/11/00	Finish G0 Magnet #3 Production

GG MILESTONES as of 9 Jan 2001

SCHEDULED DATE	Actual / Estimated Date	DESCRIPTION
4/1/98	4/1/98	Start Program
9/1/98	2/2/00	Finish GG Magnet Design
6/18/99	4/13/00	Receive Magnet Parts
4/15/99	11/19/99	Finish GG Test Coil Assembly
7/14/99	12/6/99	Start GG Magnet #1 Production
9/9/99	12/27/99	Start GG Magnet #2 Production
11/4/99	12/29/99	Start GG Magnet #3 Production
12/10/99	2/16/01	Finish GG Magnet #1 Production
2/10/00	2/22/01	Finish GG Magnet #2 Production
4/7/00	3/22/01	Finish GG Magnet #3 Production


Time Schedule as expected (3.1.2001): Milestones Kryo Installations ZEUS and H1
Status Do 04.01.01
Nr.
Vorgangsname
Dauer
Anfang
Ende
ZEUS
Delivery Subcoolerbox
Delivery Flexlines
Delivery GO#4 ?
Delivery GG#2 ?
Delivery GG#3 ?
Delivery T-Transfer Line
Transfer Line T-Branch Installation
Mounting Subcoolerbox
Mounting Flexlines
Mounting Warmgas Panel
Install (GO#2 ?)
Install GG
Connect Cryolines
Cold Test with Magnets
H1
Delivery Subcoolerbox
Delivery Flexlines
Delivery GO#3
Delivery GG#1 ?
Mounting Subcoolerbox
Mounting Flexlines
Mounting Warmgas Panel
Install GO
Cryoconnect. to GO Magnet & GG Lead Tower
Cold Test with GO Magnet & GG Lead Tower
Install GG
Connect Cryolines
Cold Test with GO & GG Magnets
Vorgang
Unterbrechung
In Arbeit
Meilenstein
Sammelvorgang
Rollup-Vorgang
Rollup-Unterbrechung
Rollup-Meilenstein
Rollup in Arbeit
Externe Vorgänge
Projekt-Sammelvorgang

Progress of Installation

QR Magnet Coil Replacement

Has been finished WL,WR, OL, OR, must be repeated!

Luminosity Upgrade

Fully Equipped Magnet Bridges installed	NL, NR, SL, SR, ok!
GM-Magnets in place	NL, NR, SL, SR, ok!
Magnet supports completed	NR, NL
Magnet pedestals modified, placed	SR, SL,
Magnet Installation NR has started, 1BQ, 3GN (1 week delay due to non-planned survey)	almost within plan

Magnet Cabling, Signal Cabling ,water connection more or less within schedule

Rotator Installation

Movable Magnet Supports NR finished, tested, ready for magnets to be installed

Movable Magnet Supports NL in progress (behind schedule)

HERA Run 2001

HERA Schedule 2001 updated 1/11/01 17:21

	Begin	Duration/Days	End
Startup 2001	18-Jun-01	1	19-Jun-01
Establish Beam Operation	18-Jun-01	22	10-Jul-01
Maintenance day *)	10-Jul-01	1	11-Jul-01
Explore Optics	11-Jul-01	23	3-Aug-01
Turn-On Detector Fields	3-Aug-01	18	21-Aug-01
Maintenance day*)	21-Aug-01	1	22-Aug-01
Set up & Optimize Collisions	22-Aug-01	12	3-Sep-01
Investigate Synchrotron Radiation	3-Sep-01	15	18-Sep-01
Maintenance day*)	18-Sep-01	1	19-Sep-01
First Luminosity Runs	19-Sep-01	21	10-Oct-01
Polarization Tuning	10-Oct-01	7	17-Oct-01
Turn on North /South rotators	17-Oct-01	19	5-Nov-01
Break for Experiments	5-Nov-01	3	8-Nov-01
Luminosity Run	8-Nov-01	32	10-Dec-01
Polarization Tuning	10-Dec-01	12	22-Dec-01
Maintenance Period	22-Dec-01	11	2-Jan-02
Restart	2-Jan-02	14	16-Jan-02

*) if needed